

04/08/13



Technical Report for

Anderson, Mulholland & Associates

BMSMC, Building 5 Area, PR

SM04.00.06 Area E 1 CM

Accutest Job Number: JB30082R

Sampling Dates: 02/27/13 - 02/28/13

Report to:

Anderson, Mulholland & Associates

ttaylor@amaiconsult.com

ATTN: Terry Taylor

Total number of pages in report: 13



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Maney F. Cole
Nancy Cole
Laboratory Director

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Sample Summary

Anderson, Mulholland & Associates

JB30082R Job No:

BMSMC, Building 5 Area, PR Project No: SM04.00.06 Area E 1 CM

Sample Number	Collected Date	Time By	Received	Matri Code		Client Sample ID
JB30082-1R	02/27/13	17:30 TT	03/01/13	so	Soil	AREAEC_9BOT
JB30082-2DR	02/28/13	10:15 TT	03/01/13	so	Soil Dup/MSD	AREAEC_12BMSD
JB30082-2R	02/28/13	10:15 TT	03/01/13	so	Soil	AREAEC_12BOT
JB30082-2SR	02/28/13	10:15 TT	03/01/13	so	Soil Matrix Spike	AREAEC_12BMS
JB30082-3R	02/28/13	11:55 TT	03/01/13	so	Soil	AREAEC_13BOT

Soil samples reported on a dry weight basis unless otherwise indicated on result page.





CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Anderson, Mulholland & Associates Job No JB30082R

Site: BMSMC, Building 5 Area, PR Report Date 4/1/2013 5:16:27 PM

On 03/01/2013, 3 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 4 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB30082R was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GC By Method SW846-8015C (DAI)

Matrix: SO Batch ID: GGH4267

- All method blanks for this batch meet method specific criteria.
- Sample(s) JB30082-2RMS, JB30082-2RMSD were used as the QC samples indicated.
- JB30082-3R: Sample analyzed outside the holding time per client's request.
- JB30082-2RMSD: Sample analyzed outside the holding time per client's request.
- JB30082-2RMS: Sample analyzed outside the holding time per client's request.
- JB30082-2R: Sample analyzed outside the holding time per client's request.
- JB30082-1R: Sample analyzed outside the holding time per client's request.
- JB30082-3R for Methanol: More than 40 % RPD for detected concentrations between the two GC columns.
- JB30082-1R for Methanol: More than 40 % RPD for detected concentrations between the two GC columns.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

Summary of Hits

Job Number: JB30082R

Account: Anderson, Mulholland & Associates Project: BMSMC, Building 5 Area, PR

Collected: 02/27/13 thru 02/28/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB30082-1R	AREAEC_9BOT					
Methanol ^a		560	230	55	ug/kg	SW846-8015C (DAI)
JB30082-2R	AREAEC_12BOT	,				
No hits reported	in this sample.					
JB30082-3R	AREAEC_13BOT					
Methanol ^a		1020	260	63	ug/kg	SW846-8015C (DAI)

⁽a) Sample analyzed outside the holding time per client's request. More than 40 % RPD for detected concentrations between the two GC columns.





Sample Results

Report of Analysis



Report of Analysis

Client Sample ID: AREAEC_9BOT Lab Sample ID: JB30082-1R

Method: SW846-8015C (DAI)

BMSMC, Building 5 Area, PR **Project:**

Date Sampled: 02/27/13 SO - Soil Matrix: **Date Received:** 03/01/13 **Percent Solids:** 86.6

File ID DF **Prep Date Analytical Batch** Analyzed By **Prep Batch** GH92241.D **XPL GGH4267** Run #1 a 1 03/20/13 n/a n/a Run #2

Initial Weight Run #1 5.0 g

Run #2

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0 67-56-1	Isopropyl Alcohol Methanol ^b	ND 560	120 230	54 55	ug/kg ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	nits	
111-27-3	Hexanol	93%		58-1	133%	
111-27-3	Hexanol	98%		58 -1	133%	

(a) Sample analyzed outside the holding time per client's request.

(b) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



Report of Analysis

Client Sample ID: AREAEC_12BOT Lab Sample ID: JB30082-2R

Lab Sample ID:JB30082-2RDate Sampled:02/28/13Matrix:SO - SoilDate Received:03/01/13Method:SW846-8015C (DAI)Percent Solids:86.5

Project: BMSMC, Building 5 Area, PR

File ID DF Analyzed By Prep Date Prep Batch Analytical Batch Run #1 a GH92242.D 1 03/20/13 XPL n/a n/a GGH4267

Run #2

Initial Weight

Run #1 5.3 g

Run #2

CAS No. Compound Result RL MDL Units Q

67-63-0 Isopropyl Alcohol ND 110 51 ug/kg 67-56-1 Methanol ND 220 52 ug/kg

CAS No. Surrogate Recoveries Run# 1 Run# 2 Limits

 111-27-3
 Hexanol
 93%
 58-133%

 111-27-3
 Hexanol
 70%
 58-133%

(a) Sample analyzed outside the holding time per client's request.

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



Report of Analysis

Client Sample ID: AREAEC_13BOT

 Lab Sample ID:
 JB30082-3R
 Date Sampled:
 02/28/13

 Matrix:
 SO - Soil
 Date Received:
 03/01/13

 Method:
 SW846-8015C (DAI)
 Percent Solids:
 75.8

Project: BMSMC, Building 5 Area, PR

File ID DF Analyzed By Prep Date Prep Batch Analytical Batch Run #1 a GH92243.D 1 03/20/13 XPL n/a n/a GGH4267

Run #2

Initial Weight

Run #1 5.0 g

Run #2

CAS No. Compound Result RL MDL Units Q

67-63-0 Isopropyl Alcohol ND 130 61 ug/kg 67-56-1 Methanol ^b 1020 260 63 ug/kg

CAS No. Surrogate Recoveries Run# 1 Run# 2 Limits

 111-27-3
 Hexanol
 93%
 58-133%

 111-27-3
 Hexanol
 95%
 58-133%

(a) Sample analyzed outside the holding time per client's request.

(b) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound





Misc. Forms
Custody Documents and Other Forms
Includes the following where applicable:

• Chain of Custody



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CHAIN OF CUSTODY

CASURATORIES			2235 TEL. 732-3	Route 13	30, Daytor	1, NJ 0881	00/248	0		1		ľ	794	839	10	769	9	-	rder Cont	# for			
Client / Reporting Information			166.7525		accutest.c		99/3481	0				A	cculest Qu	iote#				Accutes	Job#	JB	3008	32	
	Project Name:		Project	Inform	ation									Request	ed Ana	lysis (see T	EST C	ODE s	***********			Matrix Codes
Company Name Street Address		Bldg	SAV	22	۶	1 C.V	M																DW - Drinking Water
110 Corporate Park Dr	Street	V	-	-									+								- 1	- 1	GW - Ground Water WW - Water
City State Zip	City		State	Billing	Informationy Name	on (if diffe	erent fr	om Re	port to)			4										SW - Surface Water SO - Soil
White Plains DY 10604			Oldic	Compan	ly Manie								-4										SL- Sludge SED-Sediment
Project Contact Project Contact Phone # Taylor + tayloreav Phone # Fax #	Project#	H coin		Street A	vddress							\exists											OI - Oil LIQ - Other Liquid
Phone# Fax# Fax#	Client Purchase	Order#		City		-	S	tate			Zip	\dashv	355										AIR - Air SOL - Other Solid WP - Wipe
Sampler(s) Name(s) Phone #	Project Manage	r	-	Attention	n:	***************************************						\dashv	N										FB-Field Blank EB-Equipment Blank
			Collection		T								N										RB- Rinse Blank TB-Trip Blank
Acculated			T T	T	1			7	r of pres	TIT	m m	Н	-87									+	***************************************
Sample# Field ID / Point of Collection	MEOH/OI Vial #	Date	Time	Sampled by	Matrix	# of bottles	HC.	HNO3	H2SO4	Ol Wate	MEOH		BIG										LAB USE ONLY
AREAEC 9 BOT		2/27/13	1730		50	4				Ш		L	X									\neg	HZ T6
AREAEC_12 BOT	Δ	2/28/13	1015		50	4							X										14 Ib
-Z AREAEC IZBMS		2/23/13	1015		50	4				П			X									\neg	4944
AREAEC-12 BMSD	Δ	2/28/13	1015		50	ų	П		T	П			X.									\dashv	177
-3 AREAEC-13 BOT	э	2/28/13	1155		56	ч	\sqcap	\top		\Box			X	+				\dashv	-+	-+	-+	-	
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Turnaround Time (Business days)		L					ĻĻ	إببا		Щ													
	Approved By (Accu	itest PM); / Date:			Commerci		Deliver	rable			SP Cat	terrony	Δ.						***	Instruct			
Std. 10 Business Days					Commerci	al "B" (Le	vel 2)				SP Cat			(1)	2 A	DEA	80	_12	Br	ے ک	nd		
3 Day EMERGENCY		***************************************			FULLT1 (NJ Reduce)				e Form			10	ca	~ ~				0		. 1	
2 Day EMERGENCY				homewad	No Reduce Commerci				<u>_</u>	EDD Othe	Form	at		120	51+5	- ک	121	SM	30	tei	<u>M</u>	SIN	15 D
1 Day EMERGENCY		MANAGE AND ASSESSMENT				Commercia	at "A" =	Result	s Only	1 0000				Sc	mo	05							
other Emergency & Rush J/A data available VIA Lablink						Commercia NJ Reduce	al "B" =	Result	s + QC	Sumn	nary	N-1 D		3	-	CNC	08+		1	9 0	7400	0.0	102/1/2
Relinquished by Sampler:	Sa	mple Custody mu	st be docum	ented be	elow eacl	time sa	mples	chan	ge pos	sess	ion, in	cludir	y data ng couri		v. –		01-6)	<u>4</u>	/ (NCO	NO	(2) 1/15
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Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB300	82 Clier	t:	Project:	
Date / Time Received: 3/1/20	13	Delivery Method:	Airbill #'s:	
Cooler Temps (Initial/Adjusted): <u>#1: (4/4);</u> 0#2: (4/4); 0		
Cooler Security Y	or N	Y or N	Sample Integrity - Documentation	Y or N
Custody Seals Present:		Present:	1. Sample labels present on bottles:	
2. Custody Seals Intact:	4. Smpl Da	tes/Time OK ✓	2. Container labeling complete:	lacksquare
Cooler Temperature	Y or N		3. Sample container label / COC agree:	
1. Temp criteria achieved:	✓		Sample Integrity - Condition	Y or N
Cooler temp verification:	IR Gun	_	1. Sample recvd within HT:	☑ □
3. Cooler media:	Ice (Bag)	=	2. All containers accounted for:	
4. No. Coolers:	2	_	3. Condition of sample:	Intact
Quality Control Preservation	Y or N N	<u>'A</u>	Sample Integrity - Instructions	Y or N N/A
1. Trip Blank present / cooler:]	Analysis requested is clear:	\Box
2. Trip Blank listed on COC:]	Bottles received for unspecified tests	
3. Samples preserved properly:	\checkmark		Sufficient volume recvd for analysis:	
4. VOCs headspace free:]	4. Compositing instructions clear:	
			5. Filtering instructions clear:	
Comments				
Accutest Laboratories V:732.329.0200			35 US Highway 130 F: 732.329.3499	Dayton, New Jersey www/accutest.com

JB30082R: Chain of Custody

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Requested Date:	e: 3/15/2013	Received Date:	3/1/2013
Account Name:	: Anderson, Mulholland &	Due Date:	3/15/2013
Project	BMSMC, Building 5 Area, PR	Deliverable:	FULT1
CSR:	michello	TAT (Days):	14
Sample #: Dept: Dept:	Sample #: JB30082-All Dept: Dept:	Change: Please relog for D8015IPA & DGC+METH. OK to run out of hold time.	AETH. OK to

Terry Taylor Above Changes Per:

Date: 3/15/2013

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service

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